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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,496	09/08/2003	Paul T. Bender	02103-381001 / AABOSS16	9342
26162 7590 11/26/2007 FISH & RICHARDSON PC P.O. BOX 1022			EXAMINER	
			SY, MARIANO ONG	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
		·	3683	
		·	MAIL DATE	DELIVERY MODE
			11/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

***	Application No.	Applicant(s)				
	10/657,496	BENDER, PAUL T.				
Office Action Summary	Examiner	Art Unit				
	Mariano Sy	3683				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
	Responsive to communication(s) filed on <u>20 September 2007</u> .					
· <u> </u>	·—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-9,11-16,18-34,36-41,44,45 and 59-62 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	vii iroini oonsideradon.					
· <u> </u>	6)⊠ Claim(s) <u>1-9,11-16,18-34,36-41,44,45 and 59-62</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attackmant/a)						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	атепт Арріісатюп				

## **DETAILED ACTION**

1. The amendment filed on September 20, 2007 has been received.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7, 9, 11-16, 18-32, 34, 36-41, 44, 45, and 59-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (US 7,087342) in view of Miller (US 5,296,785).

Song et al. disclosed, as shown in fig. 1-5, a vehicle suspension system comprising: electronic control module 4, actuator 6,8,10,12 comprising switch circuitry 14 powered by energy from movement of the actuator to passively damp the actuator.

However Song et al. was silent to disclose the use of the actuator during a failure and wherein the electronic control module is powered by a capacitor.

Miller teaches the use of a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor.

It would have been obvious to one of ordinary skill in the art to provide the system of Song et al. with a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor, as taught by Miller, in order to avoid failure to the suspension system of the vehicle.

Song et al. do not specifically disclose the use of solid-state electronics.

It would have been obvious to one of ordinary skill in the art to use solid-state electronics in the device of Song et al. since the use of solid-state electronics have many well known advantages such as lower power consumption, less cost to make, more reliable and more resistant to vibrations.

4. Claims 8 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. in view of Miller as applied to claims 1 and 26 above, and further in view of De Puy (US 4,314,327).

Song et al. failed to disclose the supplemental circuit comprises a bipolar Royer oscillator.

Depuy teaches the use of Royer oscillator.

It would have been obvious to one of ordinary skill in the art to use Royer . oscillators, which are well known, into the system of Song et al., as taught by DePuy, as merely a design choice of selecting a well known element to perform a specific function.

## Response to Arguments

- 5. Applicant's arguments with respect to claims 1, 12, 19, 26, and 62 have been considered but are most in view of the new ground(s) of rejection.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See

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MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi, can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

M. Sy

November 13, 2007

BRADLEY KING PRIMARY EXAMINER